

Clean Version of Pending Claims

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1. (Amended) An isolated and purified nucleic acid molecule comprising a nucleic acid segment encoding a vertebrate DNA repair polypeptide, or a biologically active fragment thereof, wherein the polypeptide has a molecular weight of about 95000 Da as determined by SDS-PAGE.

2. The nucleic acid molecule of claim 1 wherein the nucleic acid segment comprises SEQ ID NO:1.

3. The nucleic acid molecule of claim 1 wherein the DNA encodes a polypeptide having SEQ ID NO:2.

4. An isolated and purified DNA molecule comprising SEQ ID NO:1, or a DNA molecule complementary thereto.

20. (New) The nucleic acid molecule of claim 1 further comprising a promoter.

21. (New) The nucleic acid molecule of claim 1 wherein the nucleic acid segment is SEQ ID NO:1.

22. (New) The nucleic acid molecule of claim 1 which encodes a fusion polypeptide comprising at least a portion of the DNA repair polypeptide which binds an antibody specific for SEQ ID NO:2.